



FortiAP 321C

QuickStart Guide



September \$#, 2017

20-500-242877-201709\$#

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- New product features
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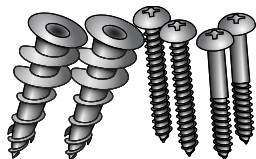
Box Includes



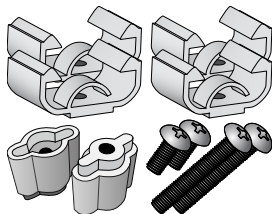
FortiAP 321C



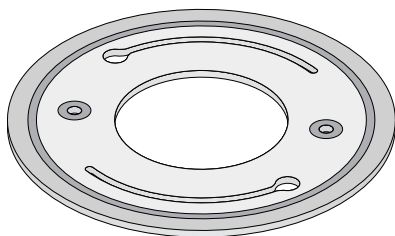
QuickStart Guide



Wall/Ceiling Mounting Hardware Kit



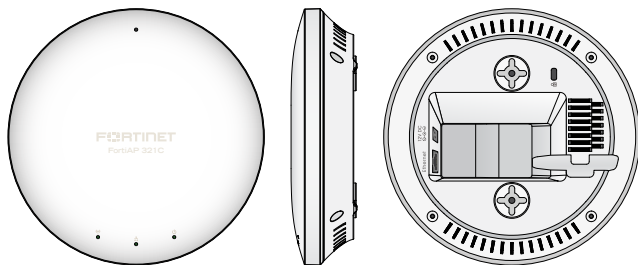
T-Rail Mounting Hardware Kit



Mounting Bracket

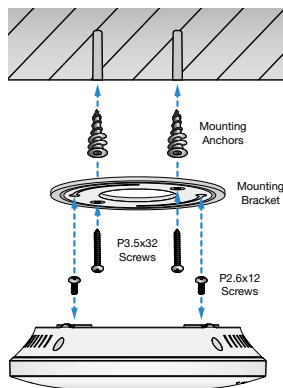
1 Installation

The unit can be mounted on a [wall or ceiling](#) using the provided [wall/ceiling mounting hardware kit](#), and to an appropriate [ceiling](#) using the [T-rail mounting hardware kit](#).



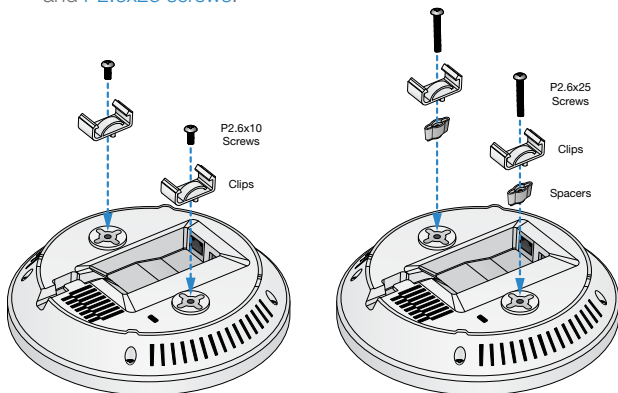
To attach the unit to a wall or ceiling

1. Select an appropriate location, then mark the locations on the [wall or ceiling](#) where the [anchors](#) will be inserted.
2. [Drill](#) the mounting holes, then insert the [anchors](#) into the holes.
3. Attach the [mounting bracket](#) to the anchors using two [P3.5x32 screws](#).
4. Insert two [P2.6X12 screws](#) into the bottom of the unit, leaving enough of the screws exposed so that the unit can be mounted to the [mounting bracket](#). If extra space is required between the unit and the [mounting bracket](#), use the [spacers](#) and [P2.6x25 screws](#) from the [T-rail mounting hardware kit](#).
5. Mount the device on the mounted [mounting bracket](#) then rotate it [clockwise](#) to secure it in place.



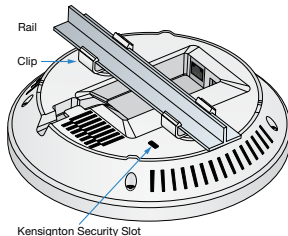
To attach the unit to a T-rail

1. Attach the **T-rail clips** to the bottom of the unit using two **P2.6X10 screws**.
If extra space is required to accommodate drop ceiling tiles, use the provided **spacers** and **P2.6x25 screws**.



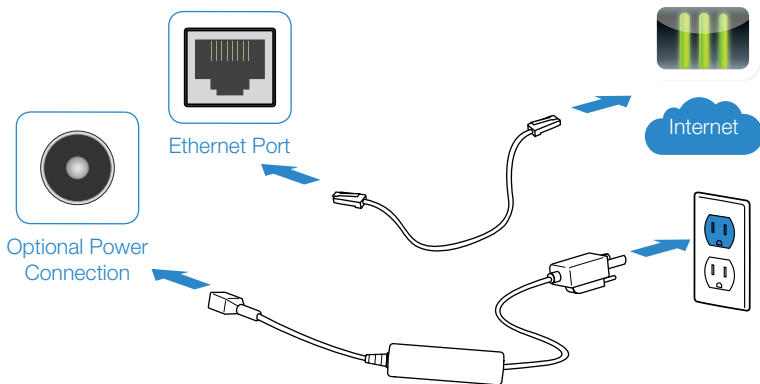
Note: Two sizes of **T-rail clips** are included in the mounting kit: **2.38cm (15/16in)** and **1.43cm (9/16in)**.

2. Line up the connected **T-rail clips** with an appropriately sized rail, then **press** the unit into the rail until it **snaps** into place.



Note: To protect your device from unauthorized removal, use the **Kensington Security Slot** to attach a **cable lock** (not included).

2 Basic Connections



Connect your FortiAP device to a [FortiGate controller](#) or an [Internet connection](#).

If you are using [Power over Ethernet \(PoE\)](#), ensure that the cable is connected to an applicable port on your [FortiGate](#) device or [PoE injector](#).

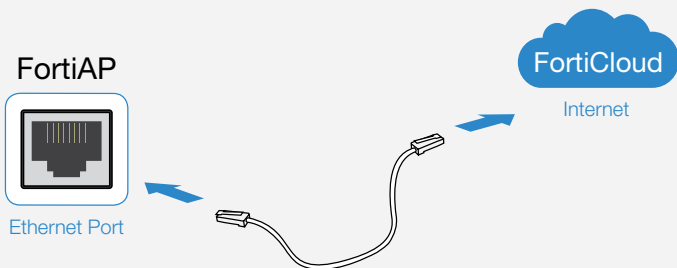
Optionally, connect your device to a [power outlet](#) using the optional power adapter.

Caution: Adequate [grounding](#) must be provided to the FortiAP unit and the PoE injector, in compliance with your [local electrical code](#) or [regulations](#).

Warning: This device complies with [IEEE 802.3af](#) PoE specification. Do not use any [PoE injectors](#) that are not [IEEE 802.3af compliant](#) as they may damage your device.

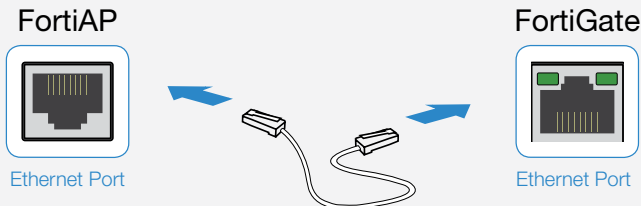
3 FortiAP Setup

A Cloud provisioning with FortiCloud



OR

B FortiGate secured on local network

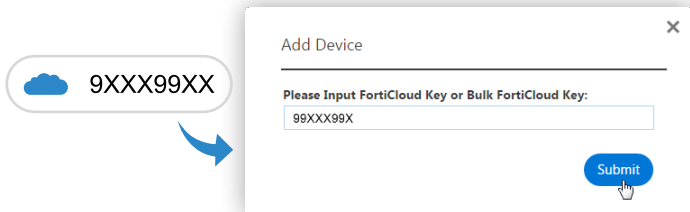


FortiAP Setup Video

<http://video.fortinet.com/video/92/basic-fortiap-setup>

A FortiCloud

1. Visit <http://www.forticloud.com> and [sign in](#) or [create a new account](#).
2. Click the “Add Device” link, enter the [unique FortiCloud key](#) located on your FortiAP device, then click [Submit](#).



9XXX99XX

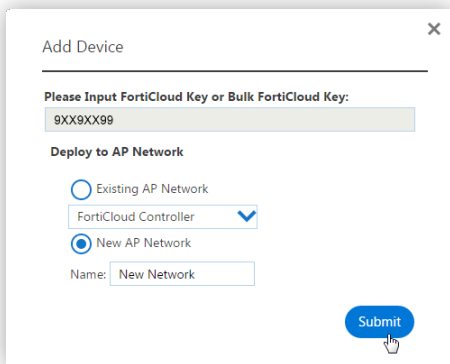
Add Device

Please Input FortiCloud Key or Bulk FortiCloud Key:

99XXX99X

Submit

3. Deploy the FortiAP to an existing AP network, or create a new AP network, then click [Submit](#).



Add Device

Please Input FortiCloud Key or Bulk FortiCloud Key:

9XX99XX99

Deploy to AP Network

☐ Existing AP Network

FortiCloud Controller

☒ New AP Network

Name: New Network

Submit

4. Follow the prompts to associate the [FortiAP](#) device to an [SSID](#).
5. Connect your FortiAP to an [Internet connection](#). This can be a modem or another source of Internet connectivity. The FortiAP will self-configure.

B Deployment through a FortiGate

If your FortiGate is on the same network as your FortiAP:

1. Preauthorize your FortiAP device using your FortiGate. If you are not familiar with deploying a FortiAP using your FortiGate, refer to the “[Access Point Deployment](#)” section of the [Deploying Wireless Networks Guide](#) found at <http://docs.fortinet.com>.
2. Plug your FortiAP into your local Ethernet connection. The FortiAP will self-configure.

Or

1. Instead of preauthorizing, you can authorize your FortiAP via the FortiGate after you have connected the FortiAP to your local [Ethernet](#).
2. Within [two minutes](#) of connecting the FortiAP to your FortiGate, the device will appear on the [Managed FortiAP](#) page in the [Web-based Manager](#): authorize and assign a profile to the device.



If your FortiGate is not on the same network as your FortiAP:

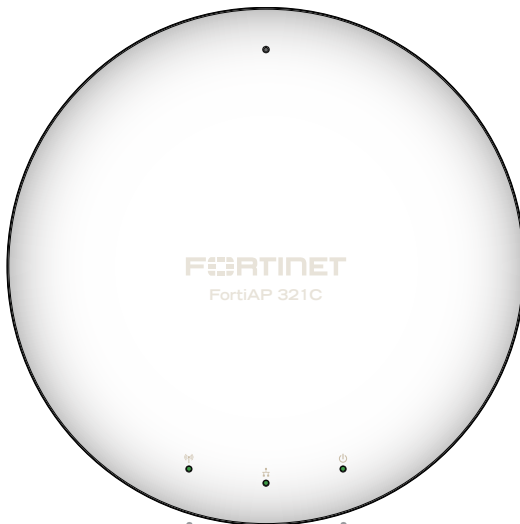
1. [Log in](#) to the FortiAP directly (IP address: [192.168.1.2](#)) with username [admin](#) and [no password](#), and specify the [IP address](#) of the controlling FortiGate.
2. Connect to the FortiAP via the [CLI](#) using the instructions in the “[Connecting to FortiAP CLI](#)” section of the [Deploying Wireless Networks guide](#).
3. Specify the [IP address](#) of the controlling FortiGate:

```
cfg -a AC_IPADDR_1=0.0.0.0
```

```
cfg -c
```

where [0.0.0.0](#) is the address of the FortiGate.

4. The FortiAP will connect to the FortiGate, and then you can [authorize](#) the FortiAP.



Power

- Green: The unit is on
- Flashing Green: Booting up
- Off: The unit is off

Ethernet Port

- Green: Connected at 1Gbps
- Flashing Green: Transmitting & receiving data at 1Gbps
- Amber: Connected at 10/100Mbps
- Flashing Amber: Transmitting & receiving data at 10/100Mbps
- Off: No link established

Wireless Radios

- Green: 5GHz wireless radio enabled
- Flashing Green: Transmitting & receiving data on 5GHz radio
- Amber: 2.4GHz wireless radio enabled
- Flashing Amber: Transmitting & receiving data on 2.4GHz radio
- Off: No link established

Device Guide



Kensington Security Slot

Anti-theft security slot for connecting lock-and-cable apparatus.

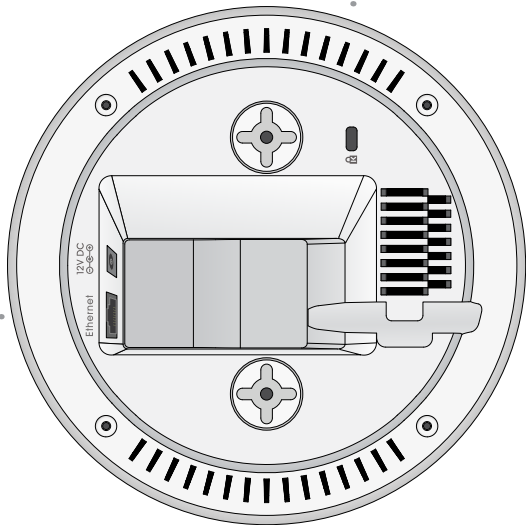
Power

Optional power adapter connection.

12V DC, 1.25A

Ethernet Port (RJ-45)

Gigabit Ethernet port with PoE powered device (PD) support.



Wireless Radios

Radio 1: 2.4GHz, 450Mbps, 802.11b/g/n

Radio 2: 5GHz, 1300Mbps, 802.11a/n/ac

Cautions and Warnings

Environmental specifications

Ambient operating temperature: 0–40°C.

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude).

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Cautions: This equipment is to be used in a Network Environment 0 per IECTR 62101. This product is connected only to PoE networks without routing to the outside plant.

Attention: Ce matériel doit être utilisé dans un Environnement Réseau 0 par IECTR 62101. Ce produit est uniquement connecté aux réseaux PoE sans installation externe de routage.

This product is intended to be supplied by a Listed Direct Plug-In Power Unit marked LPS or Class 2 and rated 12 Vdc, 1.25 A or by 48 Vdc from PoE source.

Le produit doit être alimenté par un bloc d'alimentation à courant continu homologué UL de 12 Vdc, 1.25 A nominal marqué LPS ou Class 2 ou par une source d'alimentation par Ethernet de 48 Vdc (PoE).

Regulatory Notices

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

WARNING: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Caution: Operation of this device is restricted to indoor use only.

This device meets all the other requirements specified in Part 15E, Section 15.407 of the FCC Rules.

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Industry Canada (IC RSS) – Canada

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps.

Caution: The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems. High-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause interference and/or damage to LE-LAN devices.

Attention: Le dispositif de la bande 5150-5250 MHz est réservé à un usage intérieur afin de réduire l'interférence nuisible potentielle aux systèmes mobiles par satellite co-canal. Les radars à haute puissance sont désignés comme utilisateurs principaux (à savoir les utilisateurs prioritaires) des bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient causer des interférences et / ou endommager les périphériques LE-LAN.

European Conformity (CE) – EU

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



The product transmits within the frequency ranges and less than or equal to the power listed below:

2412-2472 MHz less than 20 dBm
5180-5240 MHz less than 23 dBm *
5260-5320 MHz less than 23 dBm *
5500-5700 MHz less than 27 dBm *

Note: * Only with DFS bands certification.

Voluntary Control Council for Interference (VCCI) – Japan

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取扱説明書に従って正しい取り扱いをして下さい。

V C C I – B

Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below:
<https://www.fortinet.com/bsmi>

National Telecommunications Commission (NCC) – Taiwan

NCC警語

根據NCC低功率電波輻射性電機管理辦法規定:

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在5.25-5.35赫赫頻帶內操作之無線資訊傳輸設備，限於室內使用。

電磁波曝露量MPE標準值 $1\text{mW}/\text{cm}^2$ ，送測產品實測值為： $0.6141\text{mW}/\text{cm}^2$

Agência Nacional de Telecomunicações (ANATEL) – Brazil

Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.



Para maiores consultas sobre ANATEL consulte o site: www.anatel.gov.br

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